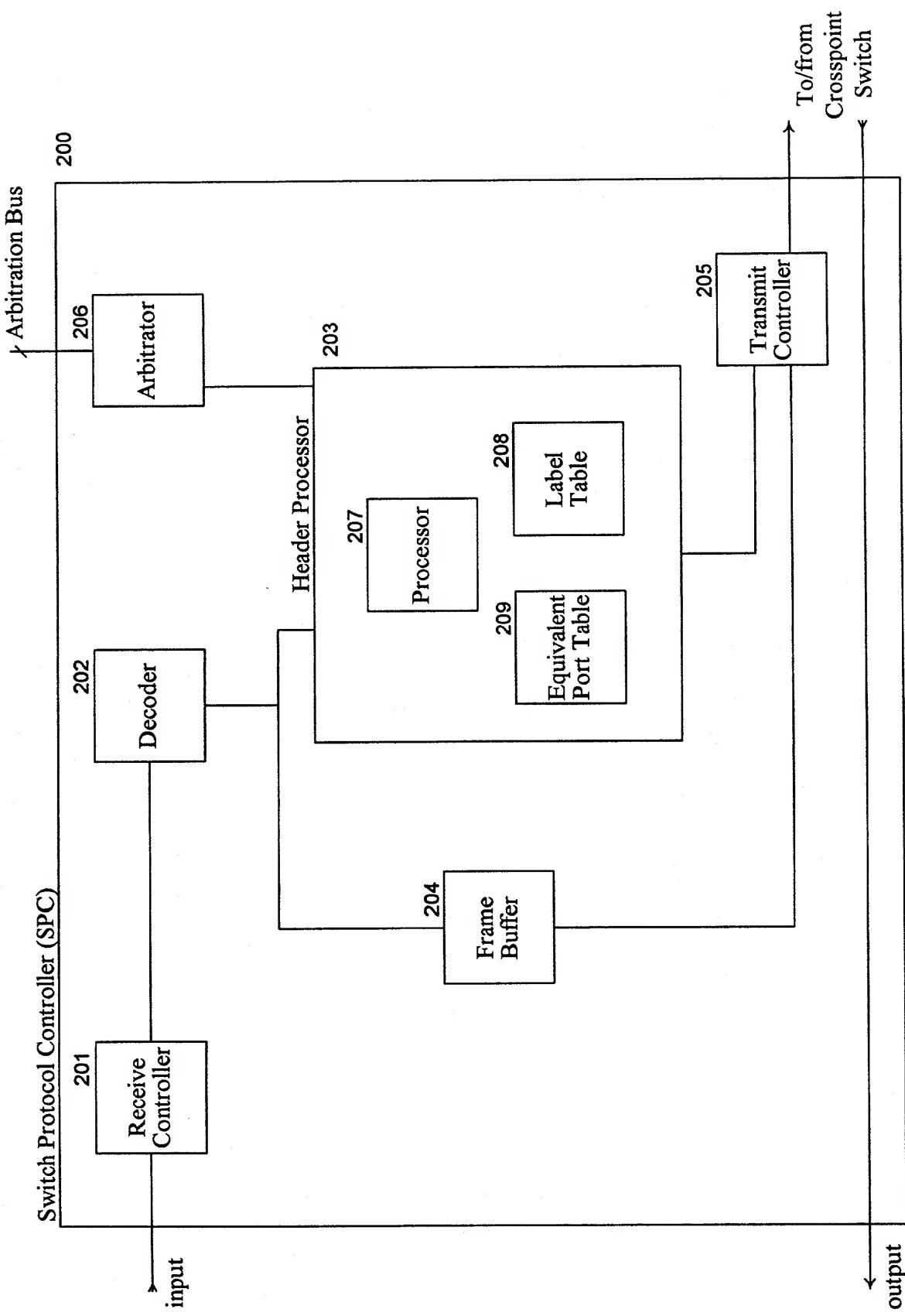
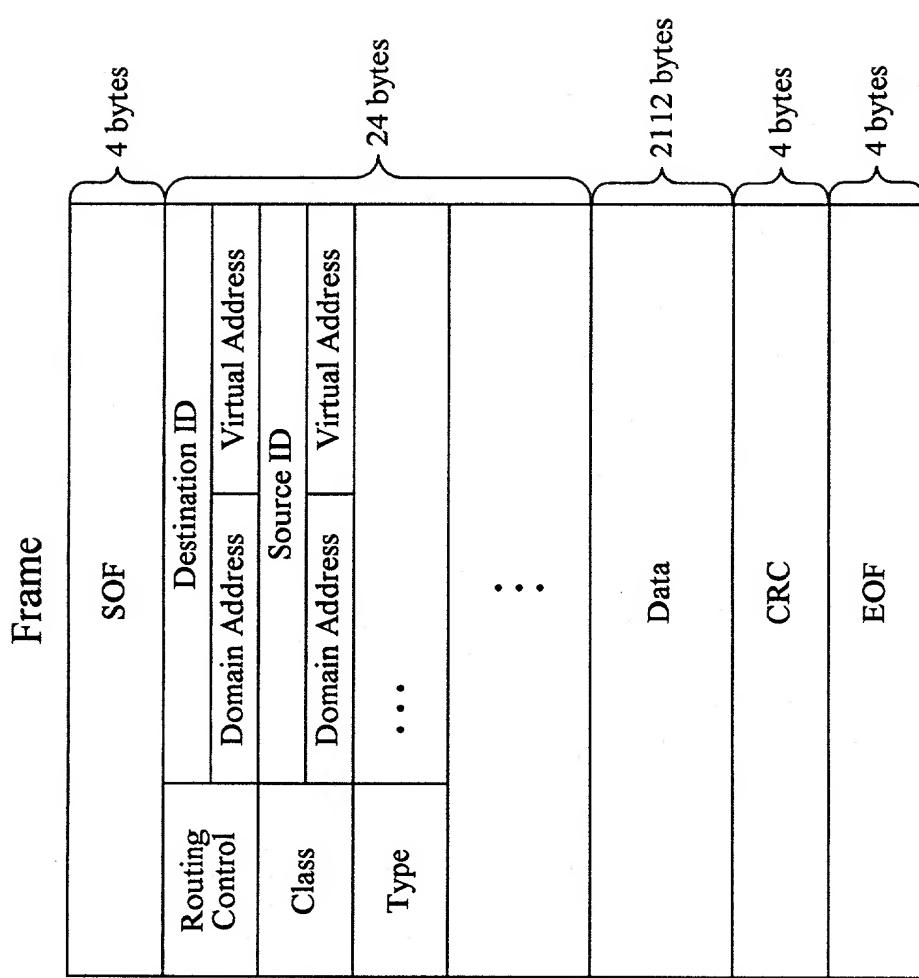


**Fig. 1**

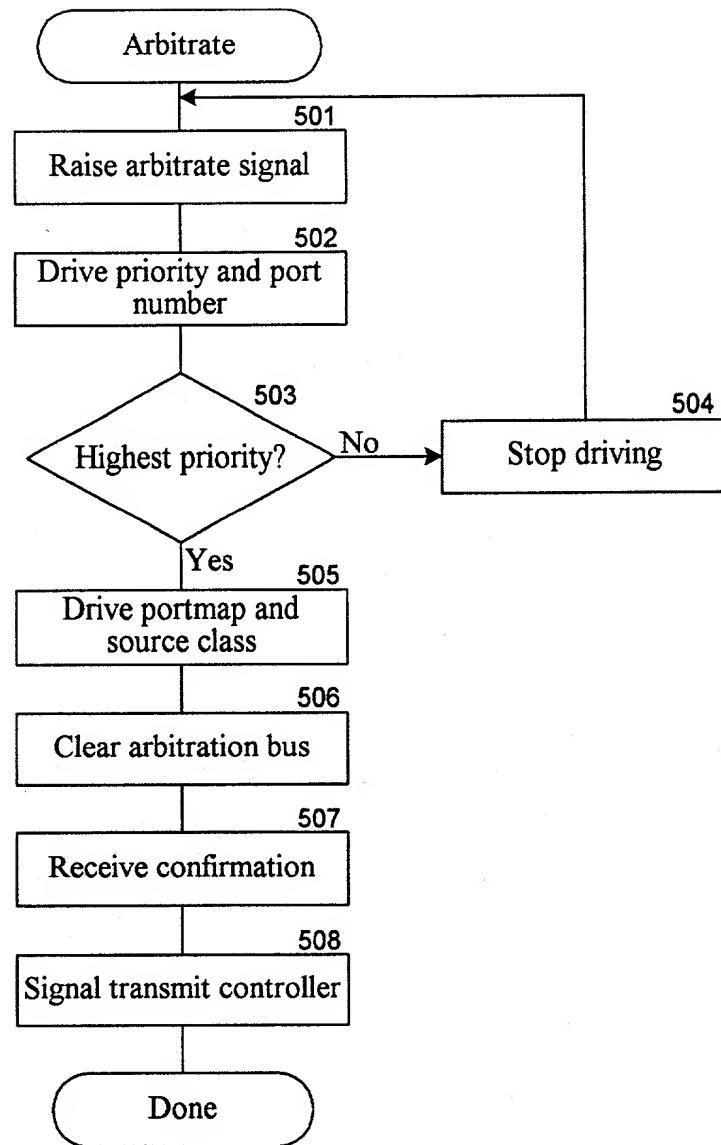


**Fig. 2**

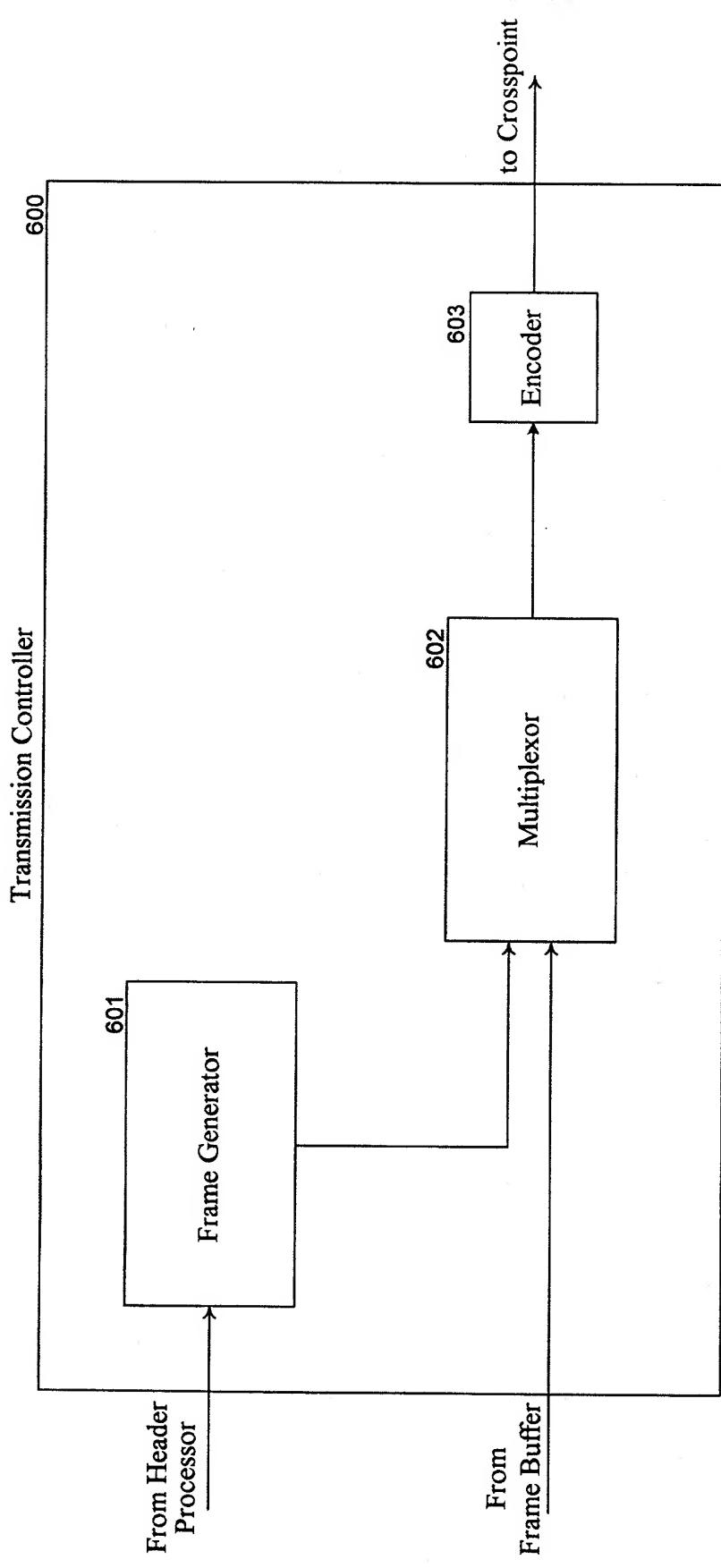
Fig. 3



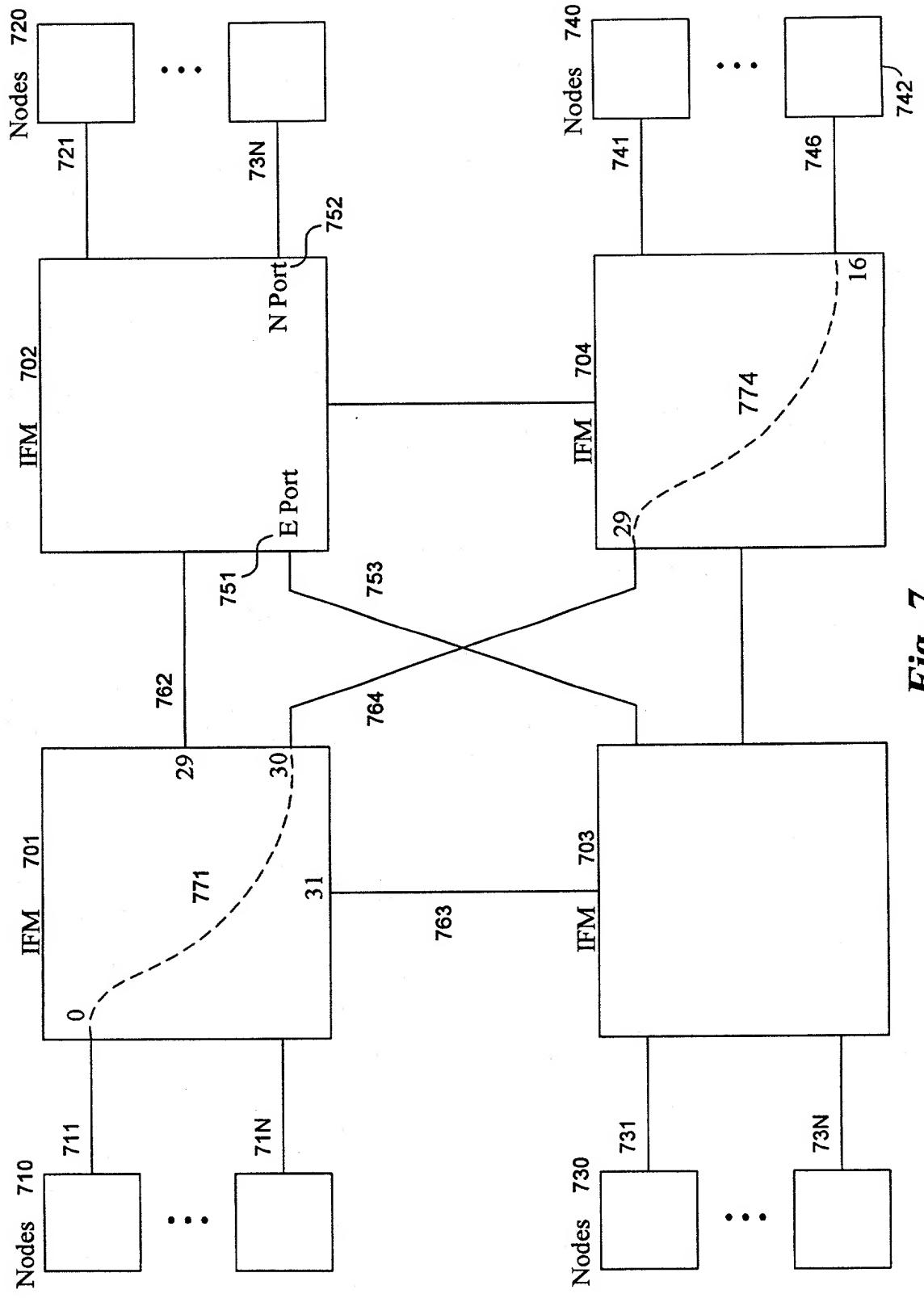
**Fig. 4**



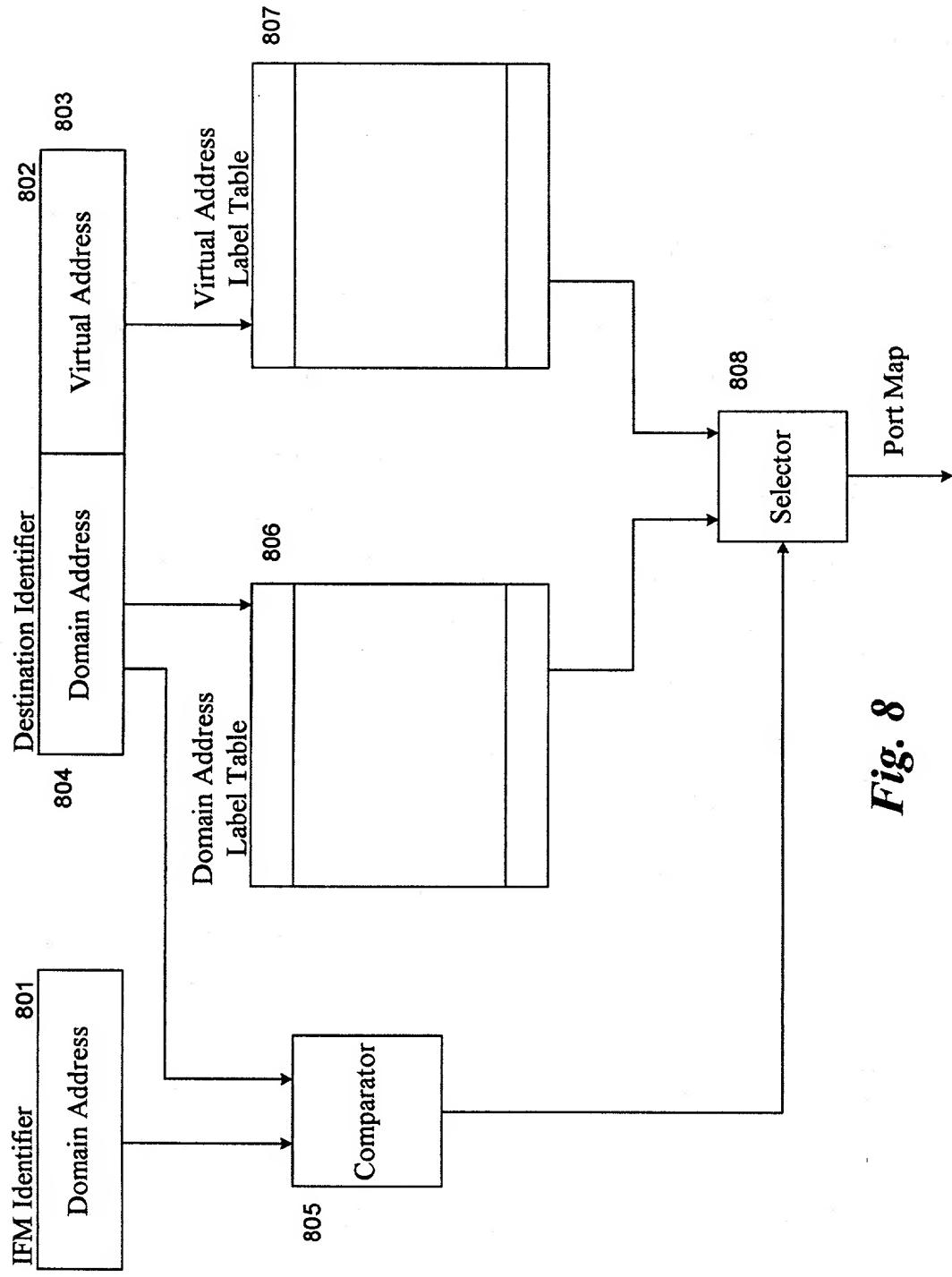
*Fig. 5*



**Fig. 6**

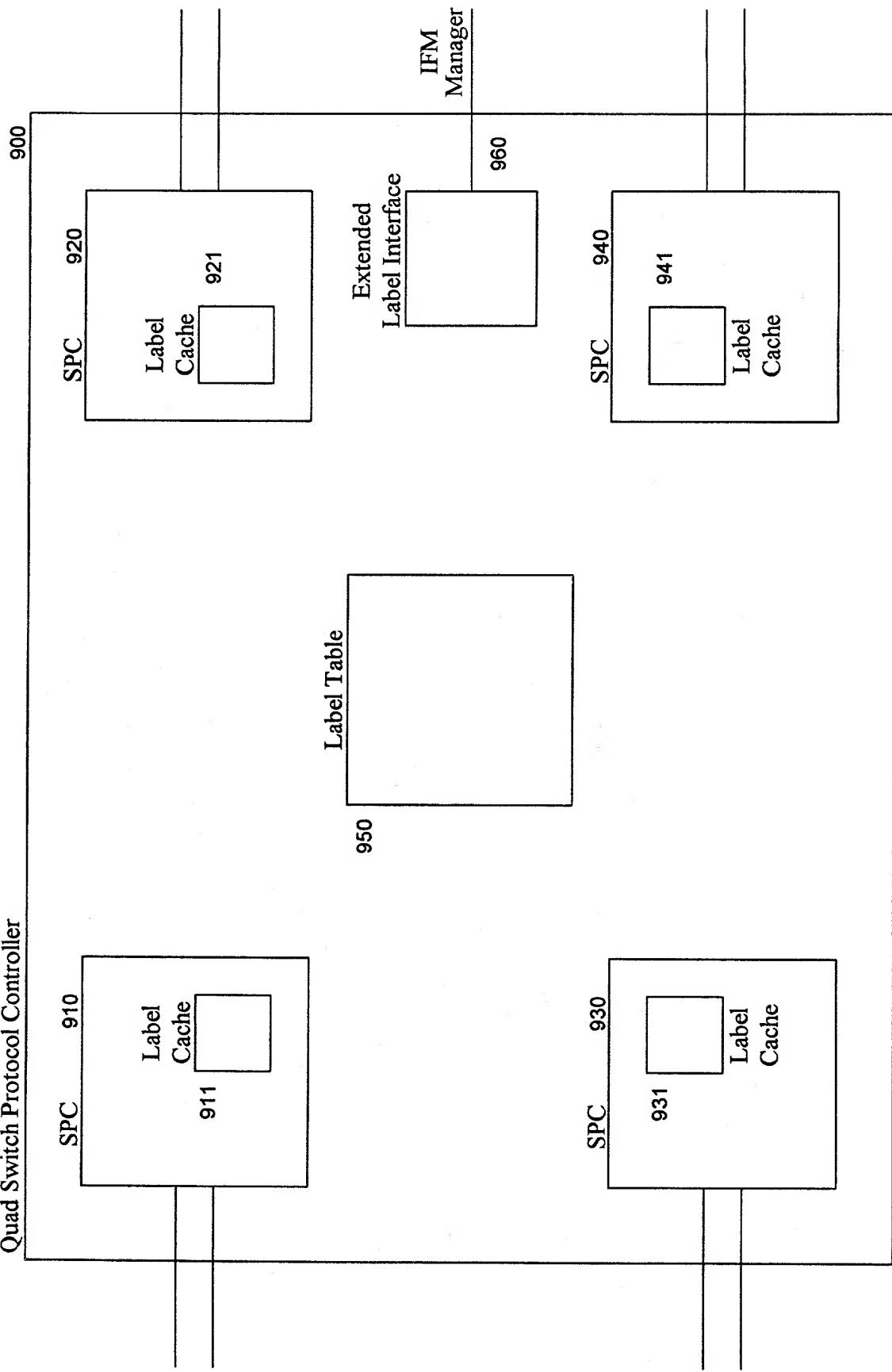


**Fig. 7**

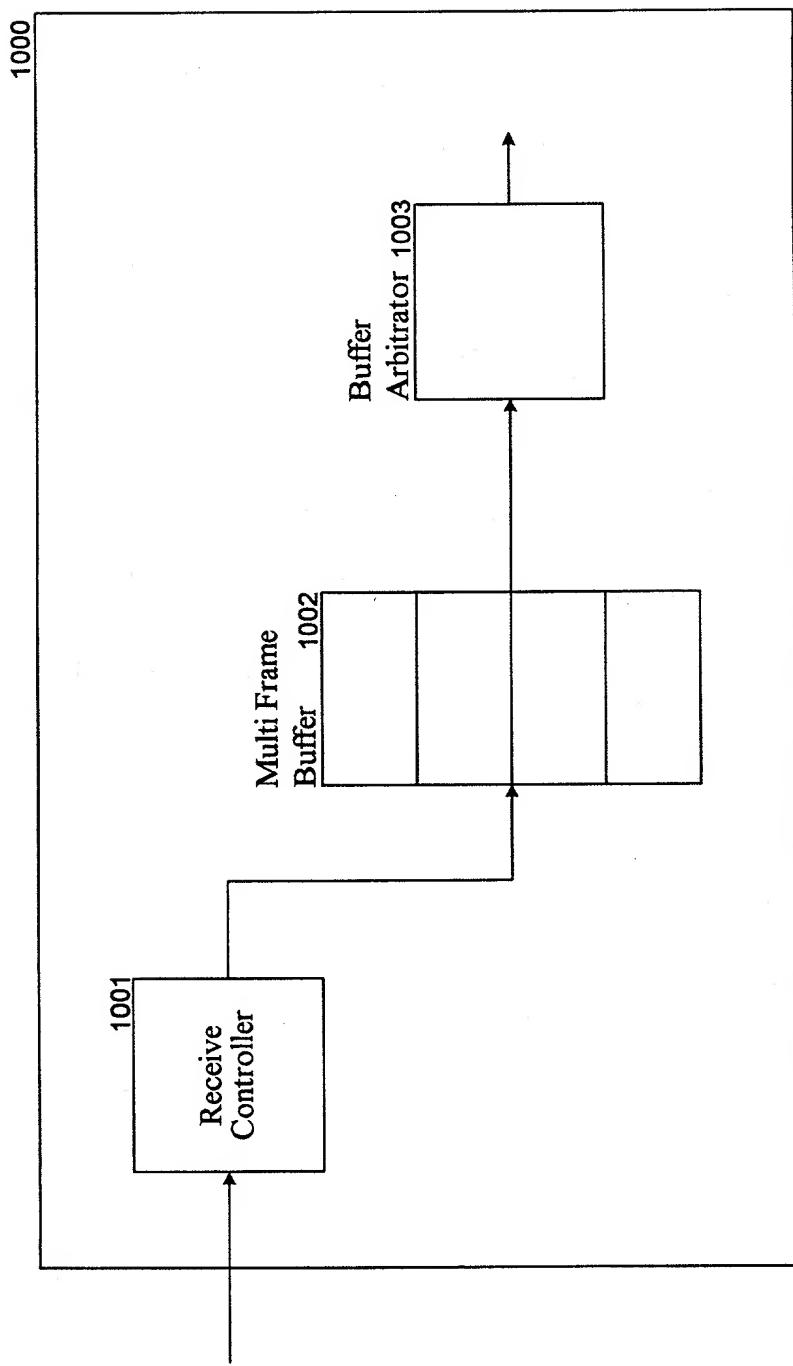


**Fig. 8**

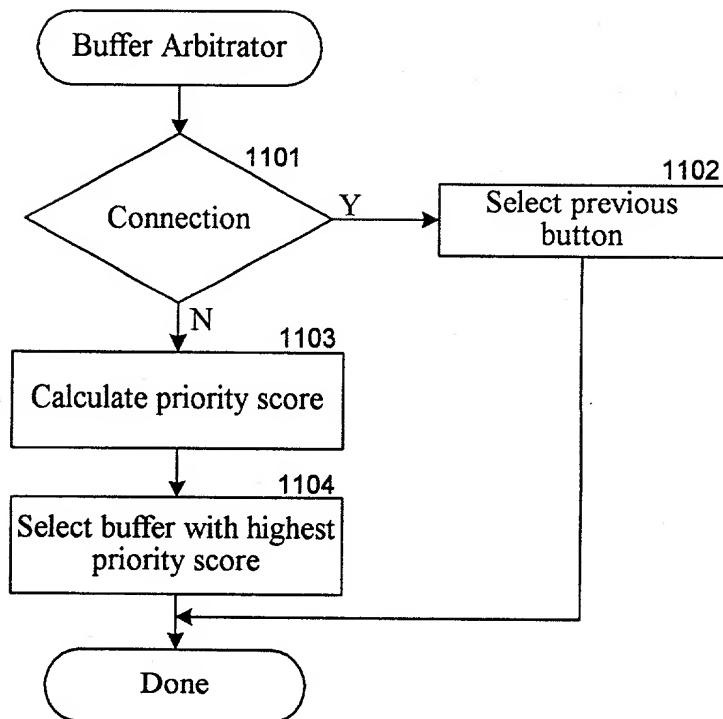
Quad Switch Protocol Controller



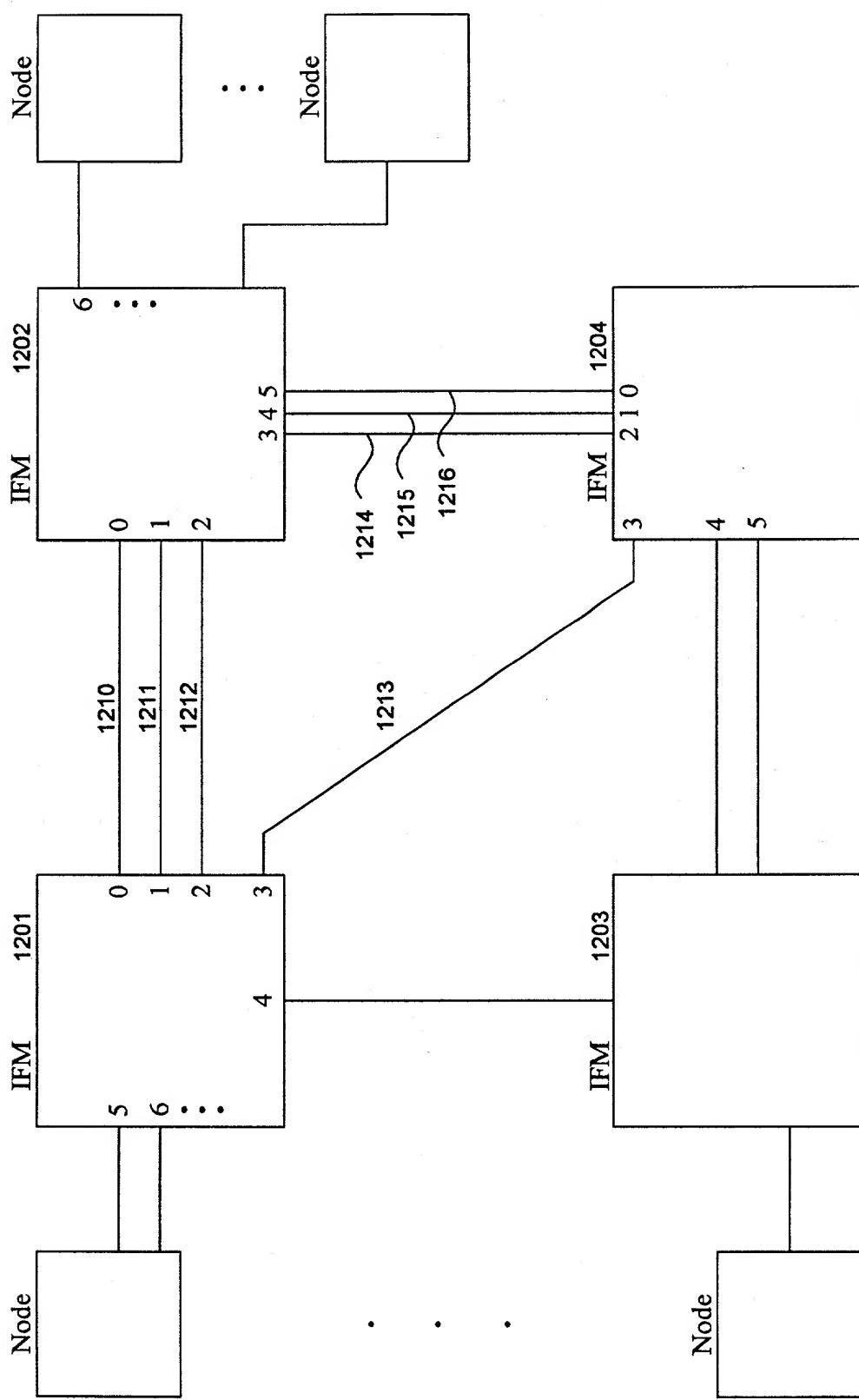
**Fig. 9**



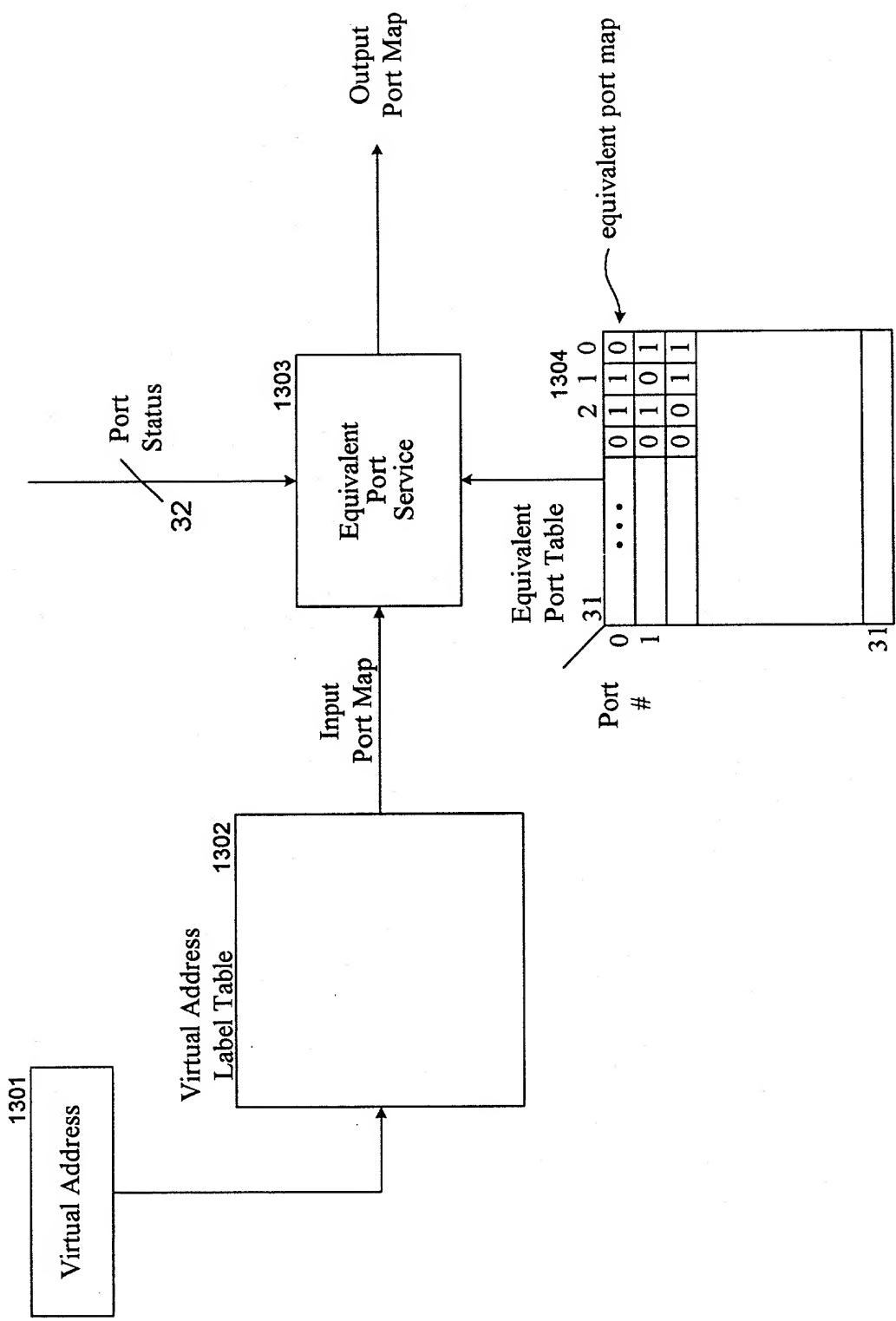
**Fig. 10**



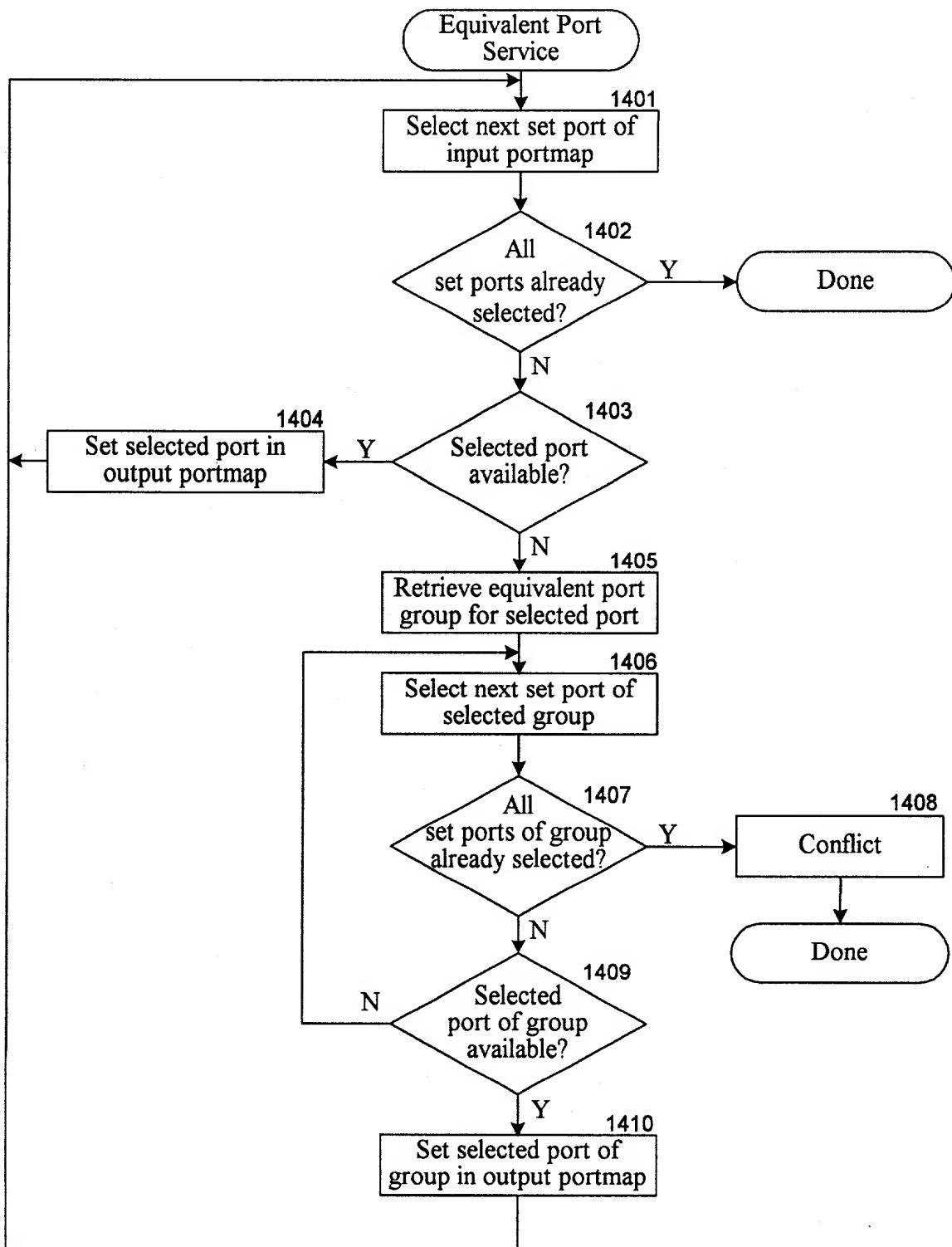
*Fig. 11*



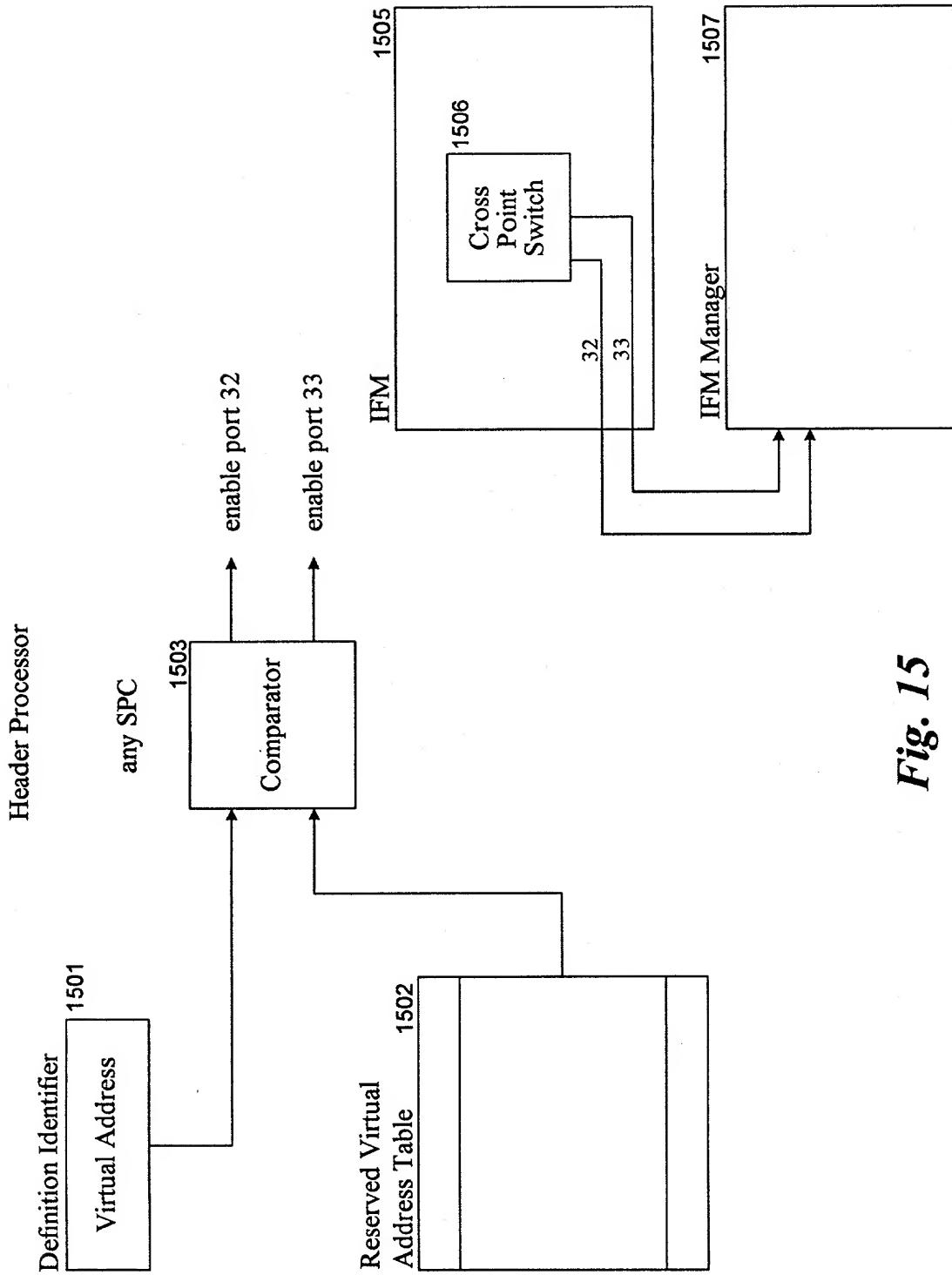
**Fig. 12**



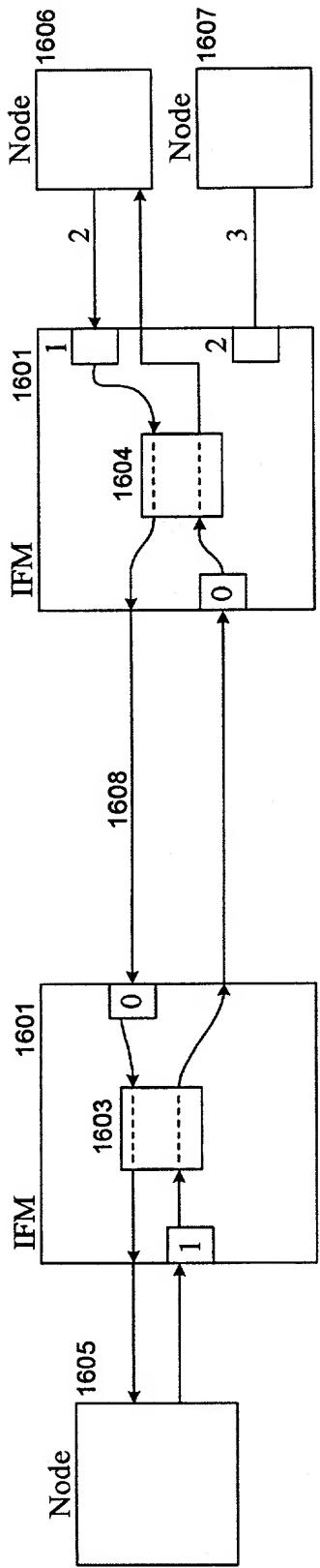
**Fig. 13**



**Fig. 14**



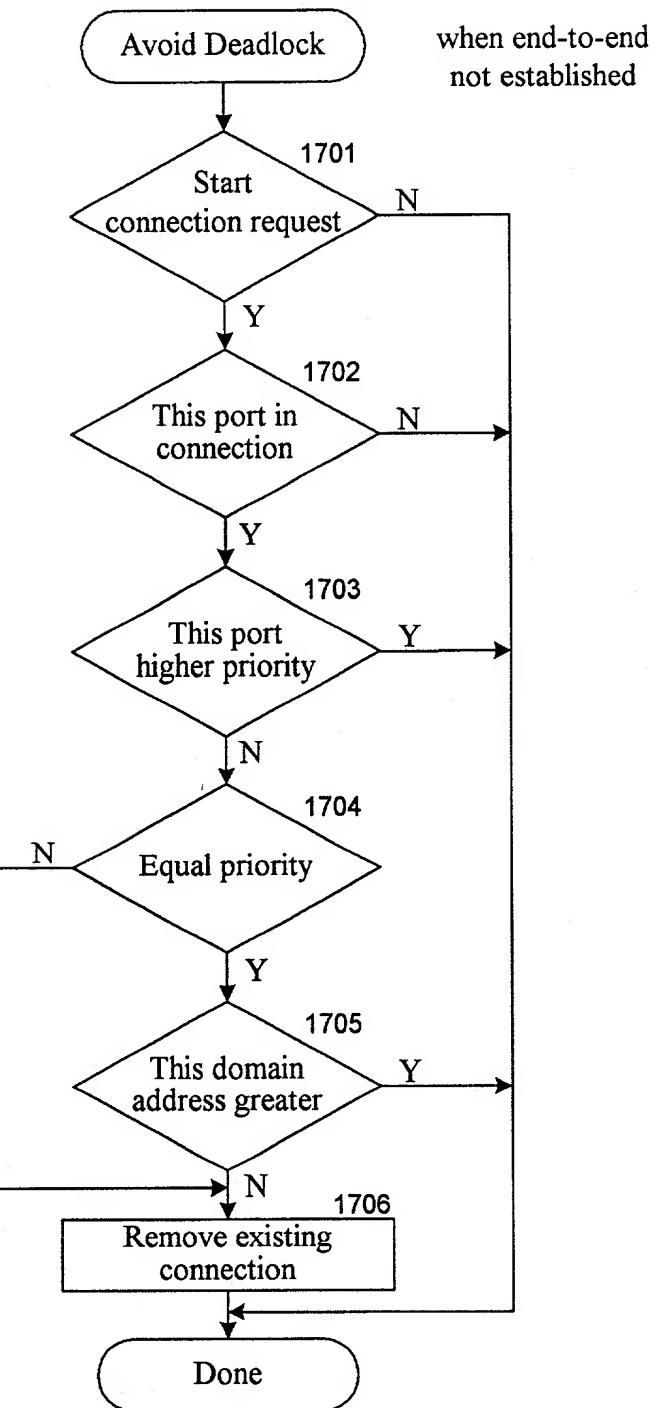
**Fig. 15**



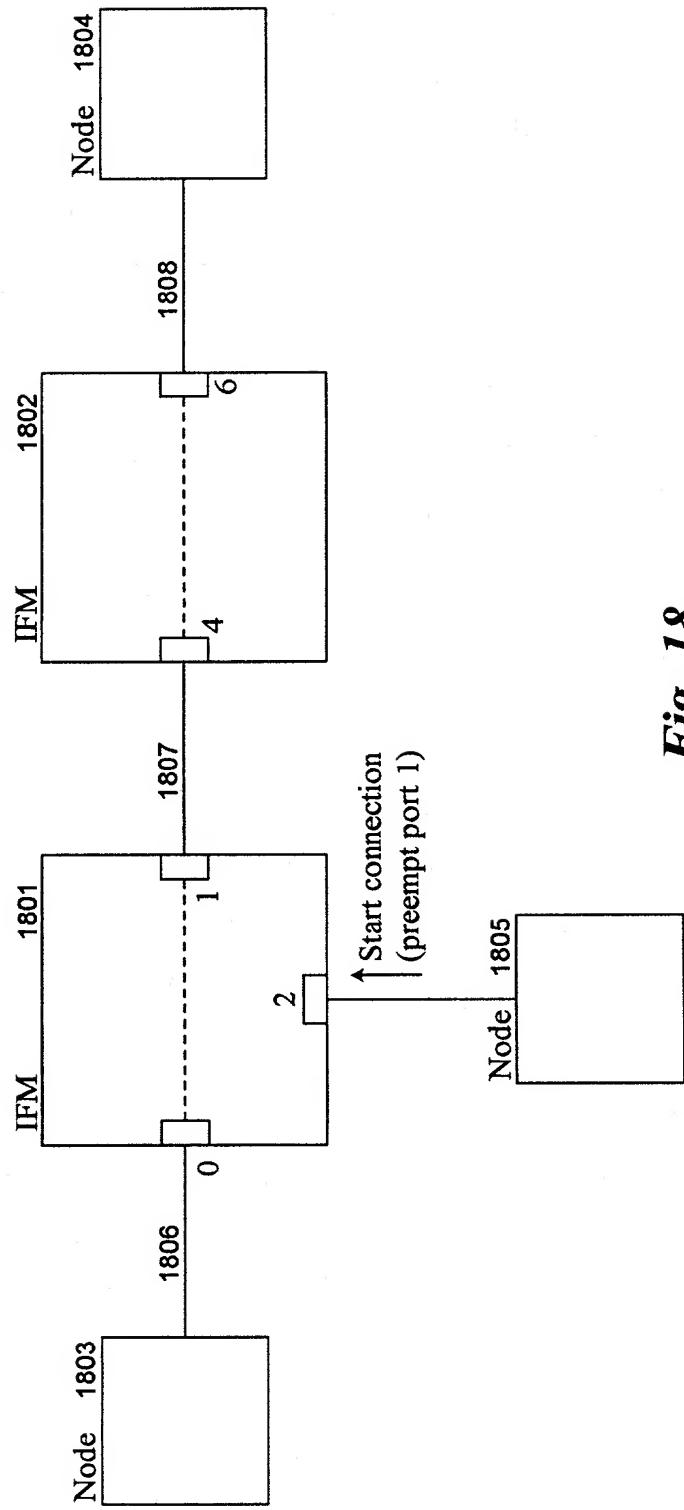
Time	Node 1605	IFM 1601	Node 1606	IFM 1602
0	Send start connect			
1		Connect 1↔0		Connect 2↔0
2		Forward start connect		Forward start connect
3			Can't forward start connect	Can't forward start connect
			Node 1	Node 1

Deadlock 1610

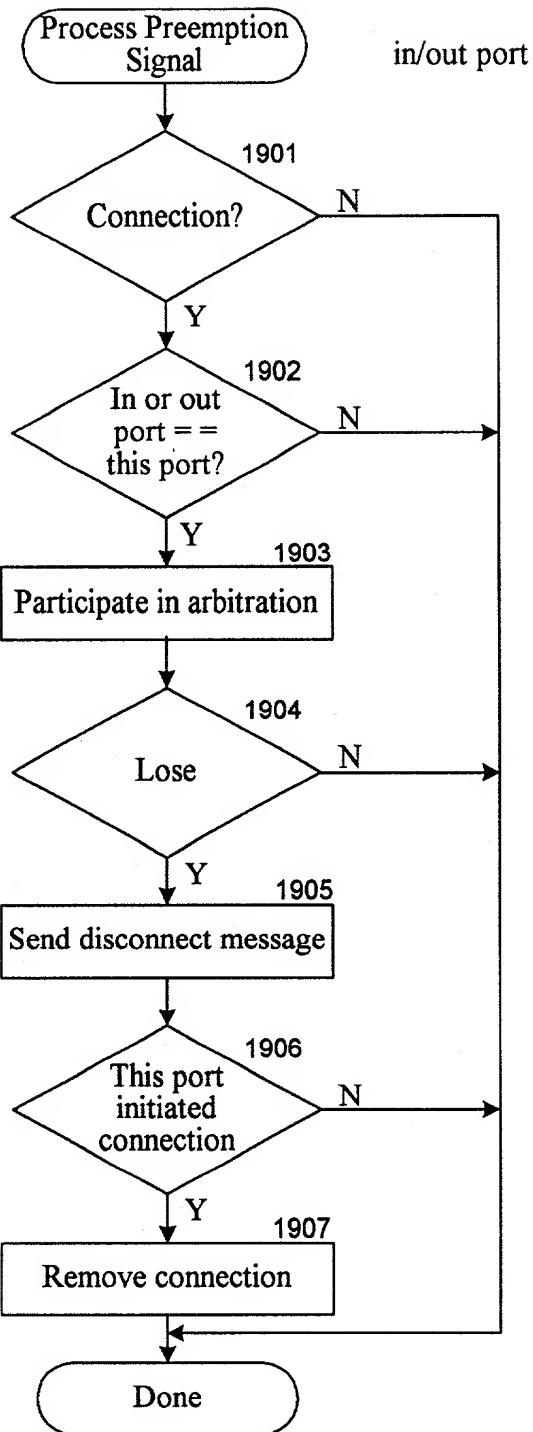
**Fig. 16**



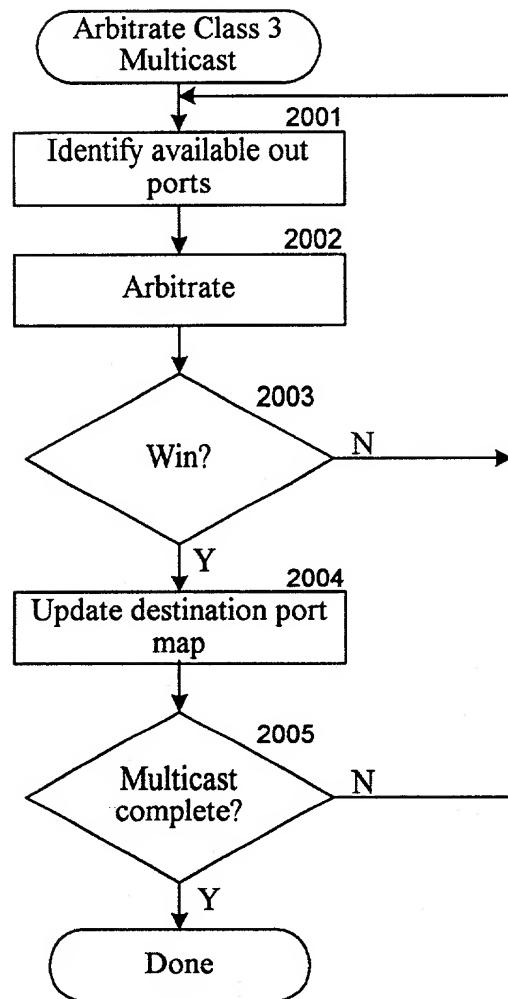
**Fig. 17**



*Fig. 18*



**Fig. 19**



**Fig. 20**